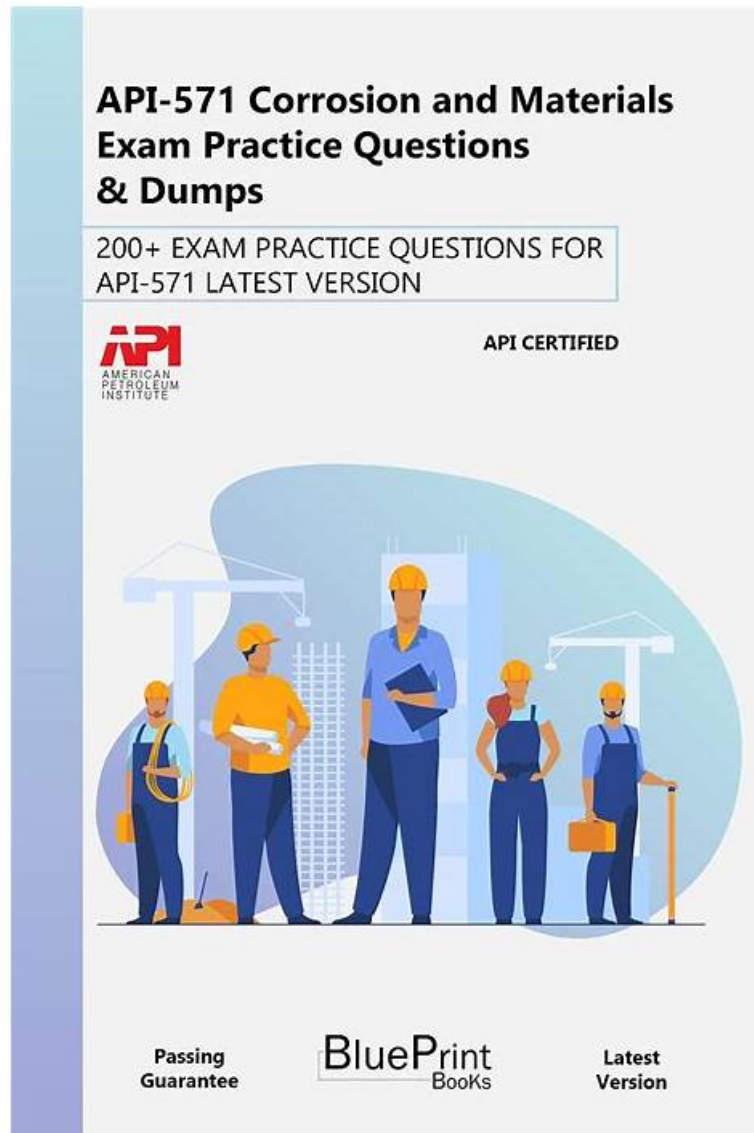


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API Corrosion and Materials Professional Sample Questions (Q71-Q76):

NEW QUESTION # 71

Which of the following materials are affected by mechanical fatigue cracking?

- A. Only carbon steel and chromes
- B. Only carbon steel, and high nickel alloys
- C. Only carbon steel
- D. All materials

Answer: A

NEW QUESTION # 72

Carbonate stress corrosion cracking is the term applied to surface breaking or cracks that occur adjacent to carbon steel welds under the combined action of _____ and _____ in carbonate containing systems.

- A. Tensile stress, corrosion
- B. Corrosion, velocity
- C. Tensile stress, velocity
- D. Temperature, stress

Answer: A

NEW QUESTION # 73

For pressure vessels, inspection should focus on welds of _____ operating in the creep range.

- A. Carbon steel
- B. Stainless steel
- C. Low hydrogen electrodes
- D. CrMo alloys

Answer: D

NEW QUESTION # 74

Susceptibility to temper embrittlement is largely determined by the presence of the alloying elements manganese and _____.

- A. Silicon
- B. Moly
- C. None of the above
- D. Chromium

Answer: A

NEW QUESTION # 75

(Grooving in cooling water tubes could be due to:)

- A. Underdeposit corrosion
- B. Electric resistance welds
- C. Microbiologically induced corrosion
- **D. Flow-induced erosion**

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Grooving corrosion in cooling water systems is a well-documented damage mechanism in API RP 571, particularly associated with high-velocity flow conditions.

Flow-induced erosion (also referred to as erosion-corrosion or flow-assisted corrosion) occurs when:

High fluid velocity removes protective corrosion films

Local turbulence, elbows, or inlet zones focus mechanical wear

Soft metals or alloys are exposed to continuous impingement

This results in smooth, directional grooves or channels aligned with the flow direction, a classic signature described in API RP 571.

Why the other options are incorrect:

Option A: ERW defects affect weld seams, not general grooving patterns.

Option B: MIC typically causes localized pitting, not uniform grooving.

Option D: Underdeposit corrosion produces irregular pitting beneath deposits, not flow-aligned grooves.

API RP 571 specifically identifies flow-induced erosion as a primary cause of grooving in cooling water heat exchanger tubes.

Referenced Documents (Study Basis):

API RP 571 - Section on Erosion/Erosion-Corrosion

API Cooling Water System Corrosion Study Guide

NEW QUESTION # 76

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